

Program of Study Alignment for TCAT and TDOE

	A	B	C	D	E	F	G
1	Career Cluster	Program of Study	CTE Courses	TCAT Program	TCAT Units of Study	TCAT Awards	TCAT Locations
2	Advanced Manufacturing	Machining Technology	Principles of Manufacturing, Principles of Machining I, Principles of Machining II, Manufacturing Practicum	Machine Tool Technology	Practical Shop Safety, Mathematical Concepts and Applications, Interpreting Engineering Drawings, Measurement & Inspection, Conventional /Advanced Machining, Manufacturing Materials & Processes, Lathe and Mill Competency, CNC Operations	Production Machine Tender Certificate 432 hrs/ 1 Trimester; Machine Set-up Operator Certificate 864 hrs/ 2 Trimesters; General Machinist Diploma 1728 hrs/ 4 Trimesters Machinist I Diploma - 2160 hrs/ 5 Trimesters	Machine Tool Technology: Athens, Chattanooga, Covington, Crossville, Crump, Dickson, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newburn, Oneida, Paris, Shelbyville, Whiteville Tool and Die: Jackson, McMinnville CNC Machining & Advanced
3	Advanced Manufacturing	Electromechanical Technology	Principles of Manufacturing, Introduction to Electromechanical, Advanced Electromechanical Technology, Manufacturing Practicum	Electronics Technology	Electronics Technology: DC Circuits AC Circuits Analog Circuits Digital Circuits Computer Electronics Industrial Electronics Electronic Shop Skills Algebra/Trigonometry Home Security	Electronics Technology: Electronics Assembler Certificate 432 Hrs/1 Trimester Electronics Tester Certificate 864 Hrs/2 Trimesters Electronics Technician Apprentice Diploma 1296 Hrs/ 3 Trimesters Electronics Technician Diploma 2160 Hrs/5 Trimesters	Electro-Mechanical Technology: Hohenwald Electronics Technology: Athens, Chattanooga, Crump, Elizabethton, Hohenwald, Livingston, McKenzie, McMinnville, Memphis, Newbern, Oneida

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4	Advanced Manufacturing	Mechatronics	Principles of Manufacturing, Digital Electronics, Mechatronics I, Mechatronics II or Manufacturing Practicum	Mechatronics, Electro-Mechanical Technology, Industrial Maintenance, Industrial Electronics	Mechatronics: Safety and Orientation, General information Mechatronics, Electricity, Instrumentation and Measurement, Energy, Mechanical Power, Drives and Transmissions, Shafts, Clutches and Brakes, Motors and Motor Controls, Fluid Power, Hydraulics, Pneumatics, Control Systems, Programmable Logic Controllers, Number Systems, PLC applications and Programming, Electronics, Robotics, Control Elements, Work Ethics, Technology Foundations Electro-Mechanical Technology: Electronics for Maintenance, Electricity with NEC Emphasis, Power Technology, Motor and AC Drive Control, Computer Concepts, Customer Service, Programmable Logic Controllers (PLCs), Hydraulics and Pneumatics, Robotics, Basic Welding, Basic HVAC, Machining and Fabrication, Mechanical Systems Industrial Maintenance: Industrial Mechanics, Fluid Power, Math and Schematics, Industrial Electricity and Electronics, Programmable	Mechatronics: Electrical Technician Assistant Certificate: 432 hrs/ 1 Trimester; Mechanical Technician Assistant/ Power and Light Certificate 864 hrs/ 2 Trimesters; Field Service Technician Diploma 1296 hrs/ 3 Trimesters; Industrial Maintenance Technician Diploma 1728 hrs/ 4 Trimesters; Mechatronics Technician Diploma 2160 hrs/ 5 Trimesters Electro-Mechanical Technology: Electrical/ Electronics Assembler 1 Trimester, Electrician Helper Certificate 1 Trimester, Maintenance Associate Helper 2 Trimesters, Maintenance Associate Diploma 3 Trimesters, Maintenance Electrician Diploma 4 Trimesters, Electro-Mechanical Technician 5 Trimesters Industrial Maintenance: Electrician Helper Certificate 432 hrs/ 1 Trimester; Electrician Class 1 Certificate 864 hrs/ 2 Trimesters; Electro-Mechanical Maintenance Diploma 1296/ 3 Trimesters; Industrial Electrician Diploma 1728/ 4 Trimesters; Industrial Maintenance	Mechatronics: Dickson, Nashville Electro-Mechanical Technology: Hohenwald Industrial Maintenance: Athens, Chattanooga, Covington, Crump, Dickson, Harriman, Hartsville, Hohenwald, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Paris, Pulaski, Shelbyville, Whiteville Electronics Technology: Athens, Chattanooga, Crump, Elizabethton, Hohenwald, Livingston, McKenzie, McMinnville, Memphis, Newbern, Oneida Auto Mechatronics: Chattanooga
5	Advanced Manufacturing	Welding	Principles of Manufacturing, Welding I, Welding II, Manufacturing Practicum	Welding	Safety & Orientation, Basic Welding Procedure, Advanced Welding Procedure, Technical Information, Shop Management, Basic Math & Blueprint Reading,	Tack Welder Certificate-432 hrs/ 1 trimester; Assembler/Production Welder 864 hrs/2 trimesters; Combination Welder Diploma-1296 hrs/ 3 trimesters	Athens, Chattanooga, Covington, Crossville, Crump, Elizabethton, Harriman, Hartsville, Jacksboro, Jackson, Knoxville, McKenzie, McMinnville, Memphis, Morristown, Nashville, Oneida, Pulaski, Shelbyville, Whiteville

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6	Architecture and Construction	Residential and Commercial Construction	Fundamental of Construction, Residential & Commercial Construction I, Residential & Commercial Construction II, Construction Practicum	Building Construction, Industrial Electricity, Masonry	Building Construction: Carpentry, construction math, hand and power tools, framing & finishing, concrete management, rigging & equipment practices, site preparation, foundations, formwork, advanced finishing systems, electricity, conduit bending, control systems, motor controls, transformers, specialty locations, project planning, plumbing, blueprint reading, water supply, work ethics, technology foundations Industrial Electricity: Modern Residential Wiring, Hands-On Residential Wiring, AC Theory, DC Theory, Solid State Electronics, Commercial Wiring, Industrial Wiring, Motor Controls, Applied Electricity Masonry: general skills, basic trade skills, level plumb, square	BUILDING CONSTRUCTION: Carpentry Assistant Certificate- 432 hrs/1 trimester; Building Construction Assistant Certificate-- 864 hrs/ 2 trimesters; Finish Carpenter Diploma-1296 hrs/3 trimesters; Building Construction Technology Technician Diploma-- 1728 hours/ 4 trimesters INDUSTRIAL ELECTRICITY: Class 2 Electrician Apprentice -864/ 2 Trimesters, Class 1 Electrician Apprentice 1296/ 3 Trimesters, Industrial Electrician 1728/ 4 Trimesters, Construction Electrician: 1728/ 4 Trimesters MASONRY: Bricklayer Helper Certificate 220 hrs, Block Layer Certificate 648 hrs, Chimney Builder Certificate 900 hrs, Brick Layer Certificate 900 hrs, Brick Layer Helper Certificate 432 hrs/ 1 Trimester, Domestic Unit Repair Technician Certificate 864 hrs/ 2 Trimesters, Refrigeration Technician Diploma 1296 hrs/ 3 Trimesters, Environmental Control Systems HVAC/R Technician Diploma 1728 hrs/ 4 Trimesters	Building Construction: Crossville, Livingston, Memphis, Nashville, Pulaski Residential Building Maintenance: Paris Brick Block and Stone Masonry: Memphis, Morristown
7	Architecture and Construction	Mechanical, Electrical, & Plumbing (MEP) Systems	Fundamentals of Construction, MEP Systems, HVAC, Electrical, or Plumbing, Construction Practicum	HVAC	Three-phase motors, Pictorial Diagrams, Pertinent Relays, Electrical Devices, Components, Schematic Wiring Diagrams, Atomic Structure & Ohm's Law, Soldering & Brazing, Flaring & Swaging, Heat-Load Calculations, Duct Sizing, Compressor Installation, System Evacuation,		Chattanooga, Covington, Crossville, Crump, Dickson, Elizabethton, Hartsville, Jackson, Knoxville, McKenzie, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Pulaski, Shelbyville, Whiteville

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8	Arts, Audio/Visual Technology, & Communications	Digital Arts & Design	Digital Arts & Design I, Digital Arts & Design II, Digital Arts & Design III, Applied Arts Practicum and/or AP Studio Art	Graphic Design	Orientation, technology foundations, computer concepts, electronic presentations, intro to visual art and design, graphic production technology, typography, work ethic, identity, branding, and logo design, digital imaging, digital illustration, digital publishing, designing for print/electronic publishing, digital photography, business of graphic design, portfolio development, HTML, web graphics, site building, multimedia/animation Practicum	Graphic Design Technician Certificate 432 hrs/ 1 Trimester; Web Design Technician Certificate 864 hrs/ 2 Trimesters; Graphic Design & Web Developer Diploma 1296 hrs; Digital Graphic Illustrator/Designer Diploma 1728 hrs; Web Graphic Designer 1728 hrs	Crump, Memphis, Morristown
9	Business Management & Administration	Business Management	Intro to Business & Marketing, Business Communication, Business Mgmt, Business & Entrepreneurship Practicum	Business Systems Technology/ Administrative Office Technology	Orientation, office technology, keyboarding, office procedures, computer essentials, word processing, spreadsheet applications, employability skills, accounting, payroll, computerized accounting, business communications, customer service, financial functions.	General Office Assistant Certificate-- 432 hrs/ 1 Trimester; Office Software Specialist Certificate--2 Trimesters; Administrative Assistant Diploma- 3 Trimesters; Accounting Assistant Diploma--3 Trimesters	All TCATS
10	Business Management & Administration	Office Management	Computer Applications, Business Communications, Business Mgmt, Advanced Computer Apps	Business Systems Technology	Orientation, office technology, keyboarding, office procedures, computer essentials, word processing, spreadsheet applications, employability skills, accounting, payroll, computerized accounting, business communications, customer service, financial functions.	General Office Assistant Certificate-- 432 hrs/ 1 Trimester; Office Software Specialist Certificate--2 Trimesters; Administrative Assistant Diploma- 3 Trimesters; Accounting Assistant Diploma--3 Trimesters	All TCATS
11	Business Management & Administration	Health Services Administration	Intro to Business & Marketing, Health Science Education, Health Information Tech, Business & Entrepreneurship Practicum	Medical Office Information Technology, Health Information Technology	Health Information Technology: Orientation & Safety, Medical Law & Ethics, Fundamental Computer Skills, Medical Terminology, Intro to Medical Coding, Medical Insurance, Medical Office Procedures, Electronic Health Records, Practice Partner Application, Employability Skills	Health Information Technician Diploma 648 hrs	Medical Office: Knoxville Health Information Technology: Crump, Memphis

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12	Education & Training	Early Childhood Education (K-4)	Fundamentals of Education, Early Childhood Education Careers II, Teaching as a Profession II, Teaching as a Profession III	Early Childhood	Orientation, Literature, Family Dynamics & Community Involvement, Guidance & Behavior, Music & Creative Movement, Math & Science, Health & Safety, Professionalism, Parenting, Clinical Practicum, Theory of Play, Nutrition, Developmental Assessment, Classroom Environment, Child	Child Care Attendant Certificate 432 hrs/ 1 Trimester; Child Care Assistant Certificate 864 hrs/ 2 Trimesters; Child Care Leader Diploma 1296 hrs/ 3 Trimesters	Hohenwald, Nashville, Paris
13	Finance	Accounting	Intro to Business & Marketing, Accounting I, Accounting II, Statistics	Administrative Office Accounting	Orientation, office technology, keyboarding, office procedures, computer essentials, word processing, spreadsheet applications, employability skills, accounting, payroll, computerized accounting, business communications, customer service financial functions.	General Office Assistant Certificate- 432 hrs/ 1 Trimester; Office Software Specialist Certificate--2 Trimesters; Administrative Assistant Diploma- 3 Trimesters; Accounting Assistant Diploma--3 Trimesters	All TCATS

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14	Health Science	Nursing Services	Health Science Ed, Medical Therapeutics, Anatomy & Physiology, Nursing Education	Practical Nursing, Medical Assistant, Patient Care Technician, Surgical Technology	Practical Nursing: Basic Nursing, Anatomy & Physiology, Nutrition, Drug Calculations, Nursing Fundamentals, Medical-Surgical Nursing, Obstetrics, Mental Health, Pediatrics, Advanced PVR, Clinical Rotations, Work Ethics Medical Assistant: Orientation/ Psychology, Anatomy & Physiology/ Medical Terminology, EMR, Administrative Procedures, Clinical Procedures, Math for Meds, Pharmacology, Phlebotomy, Career Preparations, Certification Exam Review, Externship Patient Care Technician: Orientation, Work Ethics, Nursing Assistant, Medical Office Assistant, Phlebotomy, Work Ethics, Electrocardiography, Advanced Patient Care Surgical Technology: Terminology, Microbiology, Instrumentation, Clinical Practice,	Practical Nursing: Nursing Technician 532 hrs plus 60 hrs Med Surge clinicals, Practical Nursing Diploma 1296 hrs/ 3-5 Trimesters Medical Assistant: Medical Assistant Diploma 1296 hrs Patient Care Technician: Patient Care Technician Diploma 864 hrs, Certified Nurse Technician 120 hrs Surgical Technology: Surgical Technologist Diploma 1296 hrs	Practical Nursing: Athens, Chattanooga, Covington, Crossville, Crump, Dickson, Eliabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida, Paris, Pulaski, Ripley, Shelbyville, Whiteville Medical Assistant: Chattanooga, McMinnville Surgical Technology: Chattanooga, Crossville, Hohenwald, Jackson, Knoxville, Murfreesboro Patient Care Technology: Hartsville, Paris, Ripley, Shelbyville

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1	Career Cluster	Program of Study	CTE Courses	TCAT Program	TCAT Units of Study	TCAT Awards	TCAT Locations
15	Health Science	Clinical Services	Health Science Ed, Medical Therapeutics, Dental Science or Pharmacological Science, Anatomy & Physiology or Clinical Internship	Dental Assistant, Pharmacy, Phlebotomy	Dental Assisting: Orientation, Anatomy & Physiology, Embryology & Histology, Microbiology & Infection Control, Oral Pathology, Oral Health Education, Management of Dental Emergencies, Communication & Psychology, Clinical Assisting, Therapeutics, Dental Materials, Dental Radiology, Ethics, Practice Management, Externship Pharmacy Technician: Keyboarding, Top Drugs, Law & HIPAA, Pharmacy Math, Third Party Reimbursement, Pharmacy Practice, Pharmacology, Career Readiness, Clinical Training & PTCE Prep Phlebotomy: Safety & Infection Control, Customer Service, Medical Terminology, Anatomy & Physiology, Math/ Calculations, Phlebotomy & Collection Procedures, CPR Training, Clinical Training	Dental Assisting: Diploma 1296 hrs/ 3 Trimesters Pharmacy Technician: Diploma 1296 hrs/ 3 Trimesters Phlebotomist: 432 hrs	Dental Assistant: Dickson, Knoxville, Memphis, Murfreesboro, Nashville Dental Lab Technology: Memphis, Nashville Pharmacy: Livingston, Memphis, Murfreesboro Phlebotomy: Knoxville, Memphis, Murfreesboro, Nashville
16	Hospitality & Tourism	Culinary Arts	Culinary Arts I, II, III, and IV	Culinary--High School Only	Intro to Food Service, Safety & Sanitation, Nutrition & Meal Planning, Tools & Equipment, Cooking Technology, Recipe Interpretation, Cooking Methods, Cold Foods, Hot Foods, Baking Skills, Pastry Skills, Cost Control, Purchasing & Inventory, Table & Beverage Service, Marketing the Menu.	Food Service Technician Certificate 264 hrs, Food Production Technician Certificate 1086 hrs, Culinary Arts Technician Certificate 1296 hrs.	McMinnville, Hartsville

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17	Education & Training	Early Childhood Education Careers	Early Childhood Education Careers I, II, III, and IV	Child Development	Orientation, Literature, Family Dynamics & Community Involvement, Guidance & Behavior, Music & Creative Movement, Math & Science, Health & Safety, Professionalism, Parenting, Clinical Practicum, Theory of Play, Nutrition, Developmental Assessment, Classroom Environment, Child Development	Child Care Attendant Certificate 432 hrs/ 1 Trimester; Child Care Assistant Certificate 864 hrs/ 2 Trimesters; Child Care Leader Diploma 1296 hrs/ 3 Trimesters	Hohenwald, Nashville, Paris
18	Human Services	Dietetics and Nutrition	Introduction to Human Studies, Nutrition across the Lifespan, Nutrition Science & Diet Therapy, Human Services Practicum	Dietary Management	Management of Foodservice, Nutrition/ Medical Nutrition Therapy, Sanitation & Food Safety, Human Resource Management, Career Skills	Dietary Aide 4 mths, Foodservice Technician 4 mths, Dietary Manager 8 mths	Elizabethton (online)
19	Human Services	Cosmetology	Principles of Cosmetology, Design Principles, Chemistry of Cosmetology, Entrepreneurship	Cosmetology, Aesthetics	Safety & Orientation; General Sciences, Hair Care, Skin Care, Nail Care, Instructor Training	Shampoo Technician Certificate 300 hours/ 1 Trimester, Cosmetologist Diploma 1500 hrs/ 3.5 - 5 Trimesters,	Cosmetology: Chattanooga, Dickson, Harriman, Hartsville, Hohenwald (diploma), Knoxville, Livingston, Memphis, Murfreesboro, Nashville, Oneida (diploma), Paris Aesthetics: Chattanooga, Nashville Manicurist: Chattanooga

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20	Human Services	Barbering	Barbering I, II, III, Entrepreneurship	Barbering	Safety & Orientation, Skin Care, Bacteriology & Sanitation, Shampoos & Rinses, Manicure & Nail Care; Haircoloring, Tinting & Dyeing; Hair, Skin & Scalp Properties & Treatment; Disorders of Hair, Skin & Scalp; Anatomy & Physiology; Elementary Chemistry; Massaging & Manipulating; History & Professional Image; Barber Implements; Hairstyling; Hairpieces; Shaving; Licensing Laws; Management	Barber Technician Certificate 340 hrs, Master Barber Diploma 1500 hrs	Memphis
21	Information Technology	Coding	Computer Science Foundations, Coding I & II, Coding Practicum	Computer Information Technology	Orientation & Safety, Technology Foundations, Keyboarding, Computer Concepts, Mobile Computing, Operating Systems, Applications, Biometrics, Hardware Troubleshooting, CompTIA A + Certification Prep, Comp TIA Network +, Advanced Networking, Microsoft MCTS, ECCouncil CNDA/CEH Advanced Wireless	Desktop Technician Certificate 432 hrs/ 1 Trimester, Security Specialist Certificate 648 hrs, Network Technician Certificate 648 hrs, Wireless Specialist Technician Certificate 864 hrs/ 2 Trimesters; Microcomputer Specialist Diploma 1296 hours; IT Specialist Diploma 1728 hrs; IT Specialist Coordinator Diploma 2160 hrs	Covington, Crossville, Crump, Dickson, Elizabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida, Paris, Ripley, Shelbyville, Whiteville
22	Information Technology	Networking Systems	Information Technology Foundations, Computer Systems, Networking, Cabling & Internetworking or IT Clinical Internship	Computer Information Technology	Orientation & Safety, Technology Foundations, Keyboarding, Computer Concepts, Mobile Computing, Operating Systems, Applications, Biometrics, Hardware Troubleshooting, CompTIA A + Certification Prep, Comp TIA Network +, Advanced Networking, Microsoft MCTS, ECCouncil CNDA/CEH Advanced Wireless	Desktop Technician Certificate 432 hrs/ 1 Trimester, Security Specialist Certificate 648 hrs, Network Technician Certificate 648 hrs, Wireless Specialist Technician Certificate 864 hrs/ 2 Trimesters; Microcomputer Specialist Diploma 1296 hours; IT Specialist Diploma 1728 hrs; IT Specialist Coordinator Diploma 2160 hrs	Covington, Crossville, Crump, Dickson, Elizabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida, Paris, Ripley, Shelbyville, Whiteville
23	Information Technology	Web Design	Information Technology Foundations, Web Design Foundations, Web Site Development, Web Design Practicum	Digital Graphic Design, Web Design Nashville		Graphic Design Technician Certificate 432 hrs/ 1 Trimester; Web Design Technician Certificate 864 hrs/ 2 Trimesters; Graphic Design & Web Developer Diploma	Crump, Dickson, Hohenwald, Memphis, Morristown Web Design: Nashville

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24	Transportation, Distribution, & Logistics	Automotive Maintenance and Light Repair	Maintenance and Light Repair I, II, III, & IV	Automotive Technology	Safety & Orientation, Engine Repair, Transmissions & Transaxles, Manual Drive Train and Axles, Suspension & Steering, Brakes, Electrical Systems, Heating & Air Conditioning, Engine Performance	Engine Repair Certificate 234 hrs, Automotive Transmission/Transaxle Certificate 234 hrs, Manual Drive Train and Axles Certificate 192 hrs, Suspension & Steering Certificate 180 hrs, Brake Systems Certificate 204 hrs, Electrical Systems Certificate 450 hrs, Heating and Air Conditioning Certificate, Engine Performance Certificate 432 hrs, Automotive Technician Diploma 2160 hrs	Automotive Technology: Athens, Chattanooga, Covington, Crossville, Dickson, Elizabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida, Shelbyville, Whiteville Diesel Equipment: Chattanooga, Dickson, Elizabethton, Harriman, Knoxville, Memphis
25	Transportation, Distribution, & Logistics	Automotive Collision Repair	Introduction to Collision Repair, Collision Repair--Non-structural, Painting & Refinishing, Damage Analysis, Estimating, & Customer Service	Collision	Safety & Orientation, Related Math, Non-Structural Analysis & Damage Repair, Structural Analysis & Damage Repair, Mechanical & Electrical Components	Collision Repair Helper Certificate 432 hrs/ 1 Trimester, Structural/Nonstructural Repair Technician Certificate 864 hrs/ 2 Trimesters, Collision Repair Assistant Diploma 1296 hrs/ 3 Trimesters, Collision Repair Technician Diploma 1728 hrs/ 4 Trimesters	Collision Repair: Athens, Chattanooga, Crossville, Crump, Jackson, Knoxville, Livingston, Memphis, Nashville, Oneida, Paris, Shelbyville Automotive Technology: Athens, Chattanooga, Covington, Crossville, Dickson, Elizabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida, Shelbyville, Whiteville Diesel Equipment: Chattanooga, Dickson, Elizabethton, Harriman,
26	Transportation, Distribution, & Logistics	Aviation Flight	Introduction to Aerospace, Aviation I & II	Aircraft Mechanics, Aviation Maintenance	Aircraft Mechanics: Phase I--General, Phase II--Aviation Electricity, Phase III--Airframe Structures, Phase IV--Airframe Systems, Phase V--Powerplant Reciprocating Engines, Phase VI--	Airframe Mechanic Diploma 1296 hrs, Powerplant Mechanic Diploma 1296 hrs, Airframe & Powerplant Mechanic Diploma 1944 hrs	Memphis, Morristown, Nashville